Appendix 2

South Carolina Early Action Compacts





2600 Bull Street Columbia, SC 29201-1708

COMMISSIONER:

Douglas E. Bryant

December 31, 2002

Facsimile/Overnight

BOARD:

Bradford W. Wyche Chairman Mr. J. I. Palmer, Jr., Regional Administrator

USEPA, Region 4

William M. Hull, Jr., MD Vice Chairman Sam Nunn Atlanta Federal Center

61 Forsyth Street, SW Atlanta, GA 30303

Mark B. Kent Secretary

Howard L. Brilliant, MD

Re: Additional Submittal of Early Action Compacts for South Carolina Counties

Brian K. Smith

Dear Mr. Palmer:

Rodney L. Grandy

Larry R. Chewning, Jr., DMD

The South Carolina Department of Health and Environmental Control (DHEC) is moving forward with the development of an early action State Implementation Plan (SIP), as offered by the Environmental Protection Agency (EPA), allowing cleaner air sooner for South Carolina. On November 25, 2002, DHEC completed negotiations with EPA Region 4 staff regarding South Carolina's 8-Hour Ozone Early Action Compacts (EAC).

The EACs were developed to include the local county government, DHEC and the EPA as signatory parties. It should be noted however, that interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) have been and will continue to be involved in the planning process.

Although we have identified the local county government to be a responsible party for participation in the EAC, the counties participating may or may not be part of future boundary determinations and discussions. Specifically, EPA should not consider the counties participating in the EAC as the presumptive boundaries for any future non-attainment designations.

Enclosed are additional South Carolina's 8-Hour Ozone Early Action Compacts signed by me, representing DHEC and the respective county official representing counties in the areas identified on the attached map. These counties should be added to the ones submitted to you on December 20 and 27, 2002. The recent participating counties include the following and are listed by Council of Government (COG) planning areas:

Lower Savannah: Allendale, Bamberg

Letter to Mr. Palmer December 31, 2002 Page 2

Should additional EAC's be received after submittal of this correspondence, they will be forwarded to EPA under separate cover.

Having the EAC completed and signed by all parties, including EPA will complete the first "key" milestone as outlined in the November 14, 2002, guidance memorandum issued by Mr. Jeffrey R. Holmstead. We are asking that EPA sign the enclosed EACs no later than December 31, 2002, and return the original for our files. We will then forward a copy to the respective counties.

We appreciate the opportunity to participate in the early action SIP process. Thank you for the assistance and support EPA has provided thus far in this process, especially during the public meetings held in October and in the development of the EAC. We look forward to continuing to work with EPA as we implement measures to achieve cleaner air sooner for South Carolina and our neighboring states. Should you have questions or desire additional information, please do not hesitate to contact me at (803) 896-8940 or Jim Joy, Chief of DHEC's Bureau of Air Quality at (803) 898-4123.

Sincerely,

R. Lewis Shaw, P.E.

X Levis Shaw

Deputy Commissioner Environmental Quality Control

Attachments: 1. Early Action Compacts

2. Area Map

cc: Kay Prince, EPA Region 4

Beverly Bannister, EPA Region 4 (no attachments)

County Officials (no attachments)

Harold Reheis, GA Dept. of Natural Resources (no attachments)

Ron Methier, GA Dept. of Natural Resources (no attachments)

William Ross, NC Dept. of Environmental and Natural Resources (no attachments)

Keith Overcash, NC Dept. of Environmental and Natural Resources (no attachments)

EQC District Directors (no attachments)



2600 Bull Street Columbia, SC 29201-1708

December 27, 2002

COMMISSIONER: C. Earl Hunter

Mr. J. I. Palmer, Jr., Regional Administrator

BOARD: Bradford W. Wyche USEPA, Region 4

Chairman

Sam Nunn Atlanta Federal Center

Mark B. Kent Vice Chairman 61 Forsyth Street, SW Atlanta, GA 30303

Howard L. Brilliant, MD Secretary

Carl L. Brazell

Re: Additional Early Action Compacts for South Carolina Counties

Louisiana W. Wright

Dear Mr. Palmer:

L. Michael Blackmon

The South Carolina Department of Health and Environmental Control (DHEC) is Larry R. Chewning, Jr., DMD moving forward with the development of an early action State Implementation Plan (SIP), as offered by the Environmental Protection Agency (EPA), allowing cleaner air sooner for South Carolina. On November 25, 2002, DHEC completed negotiations with EPA Region 4 staff regarding South Carolina's 8-Hour Ozone Early Action Compacts (EAC).

> The EACs were developed to include the local county government, DHEC and the EPA as signatory parties. It should be noted however, that interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) have been and will continue to be involved in the planning process.

> Although we have identified the local county government to be a responsible party for participation in the EAC, the counties participating may or may not be part of future boundary determinations and discussions. Specifically, EPA should not consider the counties participating in the EAC as the presumptive boundaries for any future nonattainment designations.

> Enclosed are additional South Carolina's 8-Hour Ozone Early Action Compacts signed by me, representing DHEC and the respective county official representing counties in the areas identified on the attached map. These counties should be added to the ones submitted to you on December 20, 2002. The recent participating counties include the following and are listed by Council of Government (COG) planning areas:

Waccamaw: Georgetown, Horry

Santee Lynches: Kershaw

Berkeley-Charleston-Dorchester: Berkeley, Charleston

Central Midlands: Fairfield Upper Savannah: Greenwood



Letter to Mr. Palmer December 27, 2002 Page 2

Should additional EAC's be received after submittal of this correspondence, they will be forwarded to EPA under separate cover. Also attached are several original EACs from the previous submittal. Please sign these and replace the "copy" versions.

Having the EAC completed and signed by all parties, including EPA will complete the first "key" milestone as outlined in the November 14, 2002, guidance memorandum issued by Mr. Jeffrey R. Holmstead. We are asking that EPA sign the enclosed EACs no later than December 31, 2002, and return the original for our files. We will then forward a copy to the respective counties.

We appreciate the opportunity to participate in the early action SIP process. Thank you for the assistance and support EPA has provided thus far in this process, especially during the public meetings held in October and in the development of the EAC. We look forward to continuing to work with EPA as we implement measures to achieve cleaner air sooner for South Carolina and our neighboring states. Should you have questions or desire additional information, please do not hesitate to contact me at (803) 896-8940 or Jim Joy, Chief of DHEC's Bureau of Air Quality at (803) 898-4123.

Sincerely,

R. Lewis Shaw, P.E.

Deputy Commissioner Environmental Quality Control

Attachments: 1. Early Action Compacts

R. Lem Shan

2. Area Map

cc: Kay Prince, EPA Region 4

Beverly Bannister, EPA Region 4 (no attachments)

County Officials (no attachments)

Harold Reheis, GA Dept. of Natural Resources (no attachments)

Ron Methier, GA Dept. of Natural Resources (no attachments)

William Ross, NC Dept. of Environmental and Natural Resources (no attachments)

Keith Overcash, NC Dept. of Environmental and Natural Resources (no attachments)

EQC District Directors (no attachments)



2600 Bull Street Columbia, SC 29201-1708

COMMISSIONER: C. Earl Hunter

December 20, 2002

Bradford W. Wyche Chairman

Mark B. Kent

Vice Chairman

Howard L. Brilliant, MD Secretary

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Mr. J. I. Palmer, Jr., Regional Administrator

USEPA, Region 4

Sam Nunn Atlanta Federal Center

61 Forsyth Street, SW Atlanta, GA 30303

Dear Mr. Palmer:

Lawrence R. Chewning, Jr., DMD

The South Carolina Department of Health and Environmental Control (DHEC) is moving forward with the development of an early action State Implementation Plan (SIP), as offered by the Environmental Protection Agency (EPA), allowing cleaner air sooner for South Carolina. On November 25, 2002, DHEC completed negotiations with EPA Region 4 staff regarding South Carolina's 8-Hour Ozone Early Action Compacts (EAC).

The EACs were developed to include the local county government, DHEC and the EPA as signatory parties. It should be noted however, that interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) have been and will continue to be involved in the planning process. Enclosed are copies of letters of support received to date from interested stakeholders.

Although we have identified the local county government to be a responsible party for participation in the EAC, the counties participating may or may not be part of future boundary determinations and discussions. Specifically, EPA should not consider the counties participating in the EAC as the presumptive boundaries for any future non-attainment designations.

The Early Action Compact states that the initial modeling emissions inventory and the base case modeling will be completed by December 31, 2002. The completion of these items is addressed in the attached 8-Hour Ozone Modeling Analysis and Attainment Demonstration for South Carolina's Early Action Compact Technical Protocol.

Letter to Mr. Palmer December 20, 2002 Page 2

South Carolina maintains responsibility and authority for implementing environmental programs throughout the state, including those in The Catawba Indian Nation, located in York, Lancaster and Chester counties. The Catawba Indian Nation will be included in all planning aspects of the early action SIP through direct communication and their representation on the local Metropolitan Planning Organization. Additionally, DHEC plans to continue to support the efforts of the Central Carolinas Integrated Air Quality Management Pilot Project.

Enclosed are South Carolina's 8-Hour Ozone Early Action Compacts signed by me, representing DHEC and the respective county official representing counties in the areas identified on the attached map. The participating counties to date include the following and are listed by Council of Government (COG) planning areas:

Appalachian: Anderson, Cherokee, Greenville, Oconee, Pickens, Spartanburg

Catawba: Chester, Lancaster, Union, York

Pee Dee: Chesterfield, Darlington, Dillon, Florence, Marion, Marlboro

Waccamaw: Williamsburg

Santee Lynches: Clarendon, Lee, Sumter Berkeley-Charleston-Dorchester: Dorchester

Low Country: Beaufort, Colleton, Hampton, Jasper Lower Savannah: Aiken, Barnwell, Calhoun, Orangeburg

Central Midlands: Lexington, Newberry, Richland

Upper Savannah: Abbeville, Edgefield, Laurens, Saluda

Should additional EAC's be received after submittal of this correspondence, they will be forwarded to EPA under separate cover.

Having the EAC completed and signed by all parties, including EPA will complete the first "key" milestone as outlined in the November 14, 2002, guidance memorandum issued by Mr. Jeffrey R. Holmstead. We are asking that EPA sign the enclosed EACs no later than December 31, 2002, and return the original for our files. We will then forward a copy to the respective counties.

Letter to Mr. Palmer December 20, 2002 Page 3

We appreciate the opportunity to participate in the early action SIP process. Thank you for the assistance and support EPA has provided thus far in this process, especially during the public meetings held in October and in the development of the EAC. We look forward to continuing to work with EPA as we implement measures to achieve cleaner air sooner for South Carolina and our neighboring states. Should you have questions or desire additional information, please do not hesitate to contact me at (803) 896-8940 or Jim Joy, Chief of DHEC's Bureau of Air Quality at (803) 898-4123.

Sincerely,

R. Lewis Shaw, P.E.

Deputy Commissioner

Environmental Quality Control

R. Lem Han

- Attachments: 1. Early Action Compacts
 - 2. Area Map of South Carolina
 - 3. Letters of Support
 - 4. 8-Hour Ozone Modeling Analysis and Attainment Demonstration for South Carolina's Early Action Compact Technical Protocol

Kay Prince, EPA Region 4 CC:

Beverly Bannister, EPA Region 4 (no attachments)

County Officials (no attachments)

Gilbert B. Blue, Chief, Catawba Indian Nation (no attachments)

Harold Reheis, GA Dept. of Natural Resources (no attachments)

Ron Methier, GA Dept. of Natural Resources (no attachments)

William Ross, NC Dept. of Environmental and Natural Resources (no attachments)

Keith Overcash, NC Dept. of Environmental and Natural Resources (no attachments)

EQC District Directors (no attachments)

Appalachian Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Anderson County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Anderson County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI. Signatures

United States Environmental Protect of Agency	Regional Administ	trator 12/30/02 Date
R. Levin Slaw South Carolina Department of Health and Environmental Control	Deputy Commissioner Title	/2/27/02 Date

Anderson County Representative Chairman Date Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Cherokee County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Cherokee County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI. Signar	tures		
United States Envir	ronmental Protection Agency	Regional Administra	<i>tor 12/30/02</i> Date
R. Lewis. South Carolina Department of Hea	Alth and Environmental Control	Deputs Counssions Title	12/20/02 Date

Title

Chairman, Cherokee Co. Council

12/16/02

Date

compact if it has previously forfeited its participation.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

8.

L. Hoke Parris

Cherokee County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Greenville County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Greenville County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

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	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

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- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
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- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

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 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
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- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI. Signatures

Halmey J.	Regional Administrali Title	or 12-30-02
United States Environmental Protection Agency	Title	Date
R. Lenn Shaw	Deputy Commissioner	12/20/02
South Carolina Department of Health and Environmental Control	Title	Date
Greenville County Representative	COUNTY ADMINISTRA	ATOR 12-18-02
Chairman, Greenville County Council	COUNTY COUNCIL CH	<u> AIRMAN /2-18-0</u> 2 Date
Clerk, Greenville County Council	CLEAK TO COUNCIL	12-18-02
creik, Greenville County Council	litte	Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Oconee County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Oconee County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

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United States Environmental Protection Agency	Regional A	Administrator 12-	30-0
United States Environmental Protection Agency	Title	Date	

South Carolina	
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R. Law Shaw

Department of Health and Environmental Control

Oconee County Representative

Co Supervisor 12/03/02

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Pickens County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Pickens County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

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April 1, 2005	Local/State control strategies implemented no later	Local/State	
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September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
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- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI.

Signatures

Pickens County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Spartanburg County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Spartanburg County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI.	Signatures	n	
United Sate	es Environmental Protection Agency	Regional Administrator Title	
R. Len South Caro	olina	Deputy Commissioner	/2/20/02 Date
	t of Health and Environmental Control		
Spartanbur	g County Representative	County Administrator Title	12 · 10 · 0 ~

8.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

Berkeley-Charleston-Dorchester Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Berkeley County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Berkeley County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
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	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI.	Signatures

Halmey.	Regional	Administrator	12-30-02
United States Environmental Protection Agency	Title	Da	ate

South Carolina

Department of Health and Environmental Control

Deputy Commissioner

12/27/02

Date

Berkeley County Representative

County Supervisor

Title

<u>December 20, 2002</u>

Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Charleston County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Charleston County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004 Early Action State Implementation Plan submitted		State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI. Signatures Regional Administrator 12-30-02
Title Date states Environmental Protection Agency Deput Commissiones 12/27/02 Title Date Department of Health and Environmental Control Court Administrator 12/23/02

compact if it has previously forfeited its participation.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

8.

Charleston County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Dorchester County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Dorchester County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	March 31, 2004 Final local early action plan submitted to DHEC;		
	copy to EPA		
December 31, 2004 Early Action State Implementation Plan submitted		State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

ignatures

Atalment.	Regional Administra	ator 12-30-02
United States Environmental Protection Agency	Title	Date
		•
R. Levi Slaw South Carolina Department of Health and Environmental Control	Deput Commissiones Title	12/27/02 Date
Department of Health and Environmental Contro	DI	:
Dorchester County Representative	Administrator Title	12/20/02 Date

Catawba Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Chester County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Chester County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	March 31, 2004 Final local early action plan submitted to DHEC;		
	copy to EPA		
December 31, 2004 Early Action State Implementation Plan submitted		State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new		
compact if it has previously forfeited its participation.			

VI. Signatures

Chester County Representative

United States Environmental Protect. Agency	Regional Title	el Administrator	12-31-02 Date
R. Lenn Sham	Dayoty	Conmissiones	12/20/02
South Carolina	Title		Date
Department of Health and Environmental Control			

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Lancaster County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Lancaster County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	March 31, 2004 Final local early action plan submitted to DHEC;		
	copy to EPA		
December 31, 2004 Early Action State Implementation Plan submitted		State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI.	Signatures		
United State	Environmental Protection Concy	Regional Administrato	r <u>12 - 31 - 0 2</u> Date
	•		
South Caro	olina t of Health and Environmental Control	Deputy Commissioning Title	12/20/02 Date
2 	of Maria and Brynonnous Control		

8.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

<u>Chair</u>

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Union County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Union County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI.	Signatures
V 1.	Signatures

United States Environmental Protection Agency	Regional r	Administrator	12-31-02
United States Environmental Protection Agency	Title		Date

K. Tem Man	Deputy Commission	12/20/02
South Carolina	Title	Date

Department of Health and Environmental Control

Union County Representative

Linear County Superior 12-10-02

Title

Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT York County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: York County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI. Signatures

United States Environmental Protection Agency	Regional Administrator	12-31-02 Date
R. Lenn Sham South Carolina Department of Health and Environmental Control	Deputy Commissiones Title	12/20/02 Date
CMuhaf Shaf York County Representative Title	Chairman, York County Cou	nul 12-9-02

Central Midlands Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Fairfield County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Fairfield County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation. 8.

VI.	Signatures
·	Digitalut

Unit d States Environmental Protection Agency	Regional Administrator Title	<u>/2 - 30-0 2</u> Date
R. Lewi Slaw South Carolina Department of Health and Environmental Control	Deputy Commission	<u> </u>
Pairfield County Representative	Chairman Title	$\frac{/2/23/2002}{Date}$

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Lexington County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Lexington County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

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	to EPA for incorporation into SIP	
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September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
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- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
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D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI. Signatures

United States Environmental Protection Igency	Regional Administrator	- 12 - 30 - 02 Date
R. Lewi Slaw South Carolina Department of Health and Environmental Control	Deputy Commissioner Title	12/27/02 Date
ASA SAMPLE Lexington County Representative	CHAIRMAN Title	Dec 10 2002

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Newberry County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Newberry County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation. 8.

gnatures

United States Environmental Protection Agency	Regional Administrator Title	<u>/2 30-02</u> Date
R. Lew Slaw South Carolina Department of Health and Environmental Control	Deputy Commissionies Title	/2/20/02 Date
Harn A. Amak Newberry County Representative	County Administrator	/2/18/02/

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Richland County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Richland County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
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	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

ignatures

United States Environmental Protection Agency	Regional Administrator Title	<u>/2 -30 -02</u> Date
R. Lem Sham South Carolina Department of Health and Environmental Control	Dagaty Convissions	12/20/02 Date
T. Cay M. Swaw Richland County Representative	COUNTY ADMINISTRATION	5P 17/1/02 Date

Low Country Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Beaufort County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Beaufort County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- A 2007 future year modeling emissions inventory will be developed by March 31, 2004.
 This inventory will sufficiently account for projected future growth in ozone precursor
 emissions through 2007, particularly from stationary, non-road and on-road mobile
 sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- 1. DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control case(s) will be used to determine the relative effectiveness of different emission reduction strategies and to aid in the selection of appropriate emission reduction strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

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- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after.
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new 8. compact if it has previously forfeited its participation.

VI. Signatures

United States Environmental Protection Agency	Regional	Administrator	12-30-02
United States Environmental Protection Academy	Title	Da	ate

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Department of Health and Environmental Control

Deputy Commissiones 12/20/02

Title Date

Courty Bouinistala Dre 18,02

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Colleton County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Colleton County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

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	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- A 2007 future year modeling emissions inventory will be developed by March 31, 2004.
 This inventory will sufficiently account for projected future growth in ozone precursor
 emissions through 2007, particularly from stationary, non-road and on-road mobile
 sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- 1. DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after.
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI.	Signatures		
United State	Environmental Protection Agency	Regional Administrato	<u>r /2-30-02</u> Date
South Caro	olina t of Health and Environmental Control	Pepety Coursessons. Title	12/20/02 Date

Council CHAIRMAN 12-5-02
Title Date

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

compact if it has previously forfeited its participation.

8.

Mun. D. Mundaugh
Colleton County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Hampton County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Hampton County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- A 2007 future year modeling emissions inventory will be developed by March 31, 2004.
 This inventory will sufficiently account for projected future growth in ozone precursor
 emissions through 2007, particularly from stationary, non-road and on-road mobile
 sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control case(s) will be used to determine the relative effectiveness of different emission reduction strategies and to aid in the selection of appropriate emission reduction strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after.
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation. 8.

VI.	Signatures
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Hampton County Representative

United Stress Environmental Protection gency	Regional Administrator Title	12-30-02 Date
R. Lenn South Carolina Department of Health and Environmental Control	Deputy Commission.	12/20/02 Date
Hampton County Representative	Tuterim Administrator	12-20-02 Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Jasper County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Jasper County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- A 2007 future year modeling emissions inventory will be developed by March 31, 2004.
 This inventory will sufficiently account for projected future growth in ozone precursor
 emissions through 2007, particularly from stationary, non-road and on-road mobile
 sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control case(s) will be used to determine the relative effectiveness of different emission reduction strategies and to aid in the selection of appropriate emission reduction strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after.
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

vi. Signature	VI.	Signatures
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Affelment.	Regional Administrator	12-30-02
United Stores Environmental Protection Agency	Title	Date

R. Levi San Deputy Commission. 12/20/02
South Carolina Title Date

Department of Health and Environmental Control

DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

JASPER COUNTY REPRESENTATIVE TITLE DATE
12/14/02

ATTESTS:

RESOLUTION 02-11

RESOLUTION REGARDING THE S.C. 8 HOUR OZONE EARLY ACTION COMPACT

WHEREAS, THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS REQUESTED THAT JASPER COUNTY PARTICIPATE IN THE S.C. 8 HOUR OZONE EARLY ACTION COMPACT;

AND WHEREAS, THE STAFF OF JASPER COUNTY HAS REVIEWED AND RECOMMENDED IT'S APPROVAL;

NOW THEREFORE BE IT RESOLVED, THAT THE JASPER COUNTY COUNCIL APPROVES ENTERING INTO THE S.C. 8 HOUR OZONE EARLY ACTION COMPACT WITH THE STATE AND FEDERAL AGENCIES WHICH IS HERETO ATTACHED AND MADE A PART HEREOF AND THE COUNTY ADMINISTRATOR IS AUTHORIZED TO EXECUTE THIS AGREEMENT ON BEHALF OF THE COUNTY COUNCIL

ON THIS 16TH DAY OF DECEMBER, 2002

ATTESTS:

APPROVED:

RK TO COUNCIL

ADMINISTRATOR

Lower Savannah Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Aiken County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Aiken County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	Local/State control strategies implemented no later	Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

 Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI.	Signatures

United States Environmental Protection Agency	Regional Administrator	12-30-02 Date
R. Lenri Sham South Carolina Department of Health and Environmental Conti	Deputy Commissioner Title	12/20/02 Date
Kourie Moura	(Jezinnan)	12/17/02
Aiken County, A Body Politic and Corporate And a Political Subdivision of the State Of South Carolina	Title	Date
Attest: Sama na Sullivan. Council Clerk		

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Allendale County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Allendale County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

\mathbf{VL}	Signatures
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United States Environmental Protection Agency	Reginal Administrator	DEC 3 1 2002 Date
A. Lewis Shaw South Carolina Department of Health and Environmental Control	Deputy Commissioner Title	12/30/02 Date
Allendale County Representative	EPA Director	12/30/02

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Bamberg County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Bamberg County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
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	EPA		
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	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI. Signar	ures
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United States Environmental Protection & general	Regiona	1 Administrator DEC 31 2002
United Strees Environmental Protection Agency	Title	Date

South Carolina Veputy Commissione 12 30 Dete

Barmberg County Representative Title Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Barnwell County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Barnwell County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA	
June 16, 2003	Discussion of control measures being considered to	Local/State	
	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005 Local/State control strategies implemented no later		Local/State	
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI. Signatures

Unite Cates Environmental Protection Agency	<u>Regional Administrator</u> Title	<u>12-30-02</u> Date
R. Jenn Slam South Carolina Department of Health and Environmental Control	Deputy Commissioner Title	12/20/02 Date
Barnwell County Representative	County admin.	11/27/02 Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Calhoun County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Calhoun County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones			
DATE	MILESTONE	RESPONSIBILITY	
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	EPA		
March 31, 2004	Final local early action plan submitted to DHEC;	Local	
	copy to EPA		
December 31, 2004	Early Action State Implementation Plan submitted	State	
	to EPA for incorporation into SIP		
April 1, 2005	April 1, 2005 Local/State control strategies implemented no later		
	than this date		
September 30, 2005	EPA takes final action on SIP submitted December	EPA	
	31, 2004		
June 30, 2006	State submits progress report to EPA	State	
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State	

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI. Signatures

United States Environmental Protection Agency	Regional Administrator Title	12-30-02 Date
R Lew Llow South Carolina Department of Health and Environmental Control	Deputy Commissione, Title	12/20/02 Date
Calhoun County County Representative Title	an) 12/17/02- Date	

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Orangeburg County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Orangeburg County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones				
DATE	MILESTONE	RESPONSIBILITY		
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA		
June 16, 2003	Discussion of control measures being considered to	Local/State		
	EPA			
March 31, 2004	Final local early action plan submitted to DHEC;	Local		
	copy to EPA			
December 31, 2004 Early Action State Implementation Plan submitted		State		
	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005	September 30, 2005 EPA takes final action on SIP submitted December			
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any	area to renev	v their EAC	after Decemb	er 31,	, 2007, or	rinitiate	a new
	compact if it has p	previously forfe	eited its part	icipation.				

VI. Signatures

Orangeburg County Representative

United States Environmental Protection Agency	Regional Admin	pistrator 12-30-02 Date	
R. Lew Haw South Carolina Department of Health and Environmental Contro		12/20/0 Date	٠٤_
Q. William Carl	Interim	or 12-17-	7.00Z

Title

Date

Pee Dee Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Chesterfield County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Chesterfield County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

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	EPA			
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	copy to EPA			
December 31, 2004 Early Action State Implementation Plan submitted		State		
	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005	September 30, 2005 EPA takes final action on SIP submitted December			
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI.

Signatures

Chesterfield County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Darlington County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Darlington County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones				
DATE	MILESTONE	RESPONSIBILITY		
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA		
June 16, 2003	Discussion of control measures being considered to	Local/State		
	EPA			
March 31, 2004	Final local early action plan submitted to DHEC;	Local		
	copy to EPA			
December 31, 2004 Early Action State Implementation Plan submitted		State		
	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005	September 30, 2005 EPA takes final action on SIP submitted December			
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI. Signatures

Regional Administrator 12-30-02

Uniter States Environmental Protection Agency

Title

Date

Date

Populy Connection Date

Title

Date

Department of Health and Environmental Control

compact if it has previously forfeited its participation.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

Vice Chairman

8.

Darlington County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Dillon County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Dillon County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

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B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
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C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
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D. Control Strategies

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- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

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 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

United States Environmental Protection Agency	Regional Administrator	<u>/2-30-02.</u> Date
R. Lenn Slan South Carolina Department of Health and Environmental Cont	Deputy Commissiones Title rol	12/20/02 Date
Dillon County Representative	Administration Title	12-18-02 Date

VI.

Signatures

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Florence County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Florence County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones				
DATE	DATE MILESTONE			
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA		
June 16, 2003	Discussion of control measures being considered to	Local/State		
	EPA			
March 31, 2004	Final local early action plan submitted to DHEC;	Local		
	copy to EPA			
December 31, 2004	Early Action State Implementation Plan submitted	State		
	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005 EPA takes final action on SIP submitted December		EPA		
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing an	y area to	renew	their	EAC	after	December	31,	2007,	or	initiate	a	nev
	compact if it has	previous	ly forfe	ited its	s parti	cipati	on.						

VI. Signatures

Affalment.	Regional Administrato	n 12-30-02
Unnet states Environmental Protection Agency	Title	Date
		4.5
R. Lewi South Carolina Department of Health and Environmental Control	Deputy Commissioner Title	12/27/02 Date
0	·	*
Florence County Representative	County Administrator Title	12(18)021 Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Marion County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Marion County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones				
DATE	DATE MILESTONE			
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA		
June 16, 2003	Discussion of control measures being considered to	Local/State		
	EPA			
March 31, 2004	Final local early action plan submitted to DHEC;	Local		
	copy to EPA			
December 31, 2004	Early Action State Implementation Plan submitted	State		
	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005 EPA takes final action on SIP submitted December		EPA		
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI.	Signatures		
A	Halmer J.	Regional Administra	Tor 12-30-02
United State	es Environmental Protection Agency	Title	Date
			·
R. Ler	in Shan	Peputy Commissiones	12/20/02
South Caro	lina	Title	Date
Department	of Health and Environmental Control		

Title

compact if it has previously forfeited its participation.

8.

Marion County Representative

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

December 9, 2002

Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Marlboro County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Marlboro County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones				
DATE MILESTONE		RESPONSIBILITY		
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA		
June 16, 2003	Discussion of control measures being considered to	Local/State		
	EPA			
March 31, 2004	Final local early action plan submitted to DHEC;	Local		
	copy to EPA			
December 31, 2004 Early Action State Implementation Plan submitted		State		
	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005 EPA takes final action on SIP submitted December		EPA		
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new 8. compact if it has previously forfeited its participation.

VI.	Signatures

Halmey.	Regional A	Edministrato	12-30-02 Date
United States Environmental Protection Agency	Pitle		Date
South Carolina Department of Health and Environmental Control	Deporty Com Title	m 155101 21	12 /2 0/0 2 Date
Marlboro County Representative	Cirunty (Idministrator	12-17-02 Date

Santee Lynches Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Clarendon County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Clarendon County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

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	copy to EPA			
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	to EPA for incorporation into SIP			
April 1, 2005 Local/State control strategies implemented no later		Local/State		
	than this date			
September 30, 2005 EPA takes final action on SIP submitted December		EPA		
	31, 2004			
June 30, 2006	State submits progress report to EPA	State		
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State		

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
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- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

compact if it has previously forfeited its participation. **Signatures** Regional Administrator 12-30-02

Hole Date United States Environmental Protection Agency Deputy Commissioner
Title South Carolina Department of Health and Environmental Control

8.

Clarendon County Representative

VI.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

County Administrator 12-19-02

Title Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Kershaw County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Kershaw County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

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VI.	Signatures

January States Environmental Protection Agency	Regional Administrator Title	/2-30-02 Date

R. Lemi Sham	Deputy Commissioner	12/23/02	
South Carolina	Title	Date	
Department of Health and Environmental Control			

Kershaw County Representative

County Administration 12/23/02

Title

Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Lee County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Lee County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after.
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI.	Signatures

United States Environmental Protection Agency	Regional Administra	<i>Tor 12-30-02</i> Date
R. Lem Han South Carolina Department of Health and Environmental Control	Deputy Commissioning Title	/2/20/a 2 Date
Samue M. Lallotto Lee County Representative Title	ASMINISTRATOV	12/2002

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Sumter County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Sumter County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI.	Signatures
V 1.	Signature

Sumter County Representative

Unit dates Environmental Protection Agency	Regional Administra	<i>Tor 12-30-02</i> Date
R Lem Slan	Deputy Commissions	
South Carolina Department of Health and Environmental Control	Title	Date
1. [d]	C \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

Date

Upper Savannah Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Abbeville County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Abbeville County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones		
DATE	MILESTONE	RESPONSIBILITY
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA
June 16, 2003	Discussion of control measures being considered to	Local/State
	EPA	
March 31, 2004	Final local early action plan submitted to DHEC;	Local
	copy to EPA	
December 31, 2004	Early Action State Implementation Plan submitted	State
	to EPA for incorporation into SIP	
April 1, 2005	Local/State control strategies implemented no later	Local/State
	than this date	
September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any	area to re	new their	EAC after	December	31, 20	007, or	initiate a	new
	compact if it has	previously f	orfeited its	participati	on.				

VI. Signatures

Attalment.	Regional Administrator	12-30-02
United States Environmental Protection Agency	Title	Date
R. Lemi Slan	Deputy Commissions	12/20/02
South Carolina Department of Health and Environmental Control	Title	Date
	Ca	0.0
Abbeville County Representative	<u>Chairmain</u> Title	12-9-02 Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Edgefield County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Edgefield County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones					
DATE	DATE MILESTONE				
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA			
June 16, 2003	Discussion of control measures being considered to	Local/State			
	EPA				
March 31, 2004	Final local early action plan submitted to DHEC;	Local			
	copy to EPA				
December 31, 2004 Early Action State Implementation Plan submitted		State			
	to EPA for incorporation into SIP				
April 1, 2005	Local/State control strategies implemented no later	Local/State			
	than this date				
September 30, 2005	EPA takes final action on SIP submitted December	EPA			
	31, 2004				
June 30, 2006	State submits progress report to EPA	State			
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State			

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

VI. Signatures		
Attalment.	Regional Administrate	r_12-30-02
United States Environmental Protection Agency	Title	Date
D & 01	,	
R. Lemi Sham	Deputy Commissionies	12/20/02
South Carolina Department of Health and Environmental Control	Titic	Date
Charle m Voncue	Chairman	Dec. 3, 2002

Title

compact if it has previously forfeited its participation.

Not allowing any area to renew their EAC after December 31, 2007, or initiate a new

Date

8.

Edgefield County Representative

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Greenwood County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Greenwood County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones						
DATE	DATE MILESTONE					
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA				
June 16, 2003	Discussion of control measures being considered to	Local/State				
	EPA					
March 31, 2004	Final local early action plan submitted to DHEC;	Local				
	copy to EPA					
December 31, 2004 Early Action State Implementation Plan submitted		State				
	to EPA for incorporation into SIP					
April 1, 2005 Local/State control strategies implemented no later		Local/State				
	than this date					
September 30, 2005	EPA takes final action on SIP submitted December	EPA				
	31, 2004					
June 30, 2006	State submits progress report to EPA	State				
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State				

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any	y area to	renew the	ir EAC	after	December	31,	2007,	or	initiate	a	new
	compact if it has	previously	y forfeited	its part	icipati	on.						

VI. Signatures

United States Environmental Protection Agency	Regional Administrator	n <u>12 30-02</u> Date
R. Lew Haw South Carolina Department of Health and Environmental Contr	Deputy Commissiones Title	12/27/02 Date
Greenwood County Representative	<u>Chairman</u> Title	<u>Dec.17, 2ho 2</u> Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Laurens County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Laurens County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones						
DATE	DATE MILESTONE					
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA				
June 16, 2003	Discussion of control measures being considered to	Local/State				
	EPA					
March 31, 2004	Final local early action plan submitted to DHEC;	Local				
	copy to EPA					
December 31, 2004 Early Action State Implementation Plan submitted		State				
	to EPA for incorporation into SIP					
April 1, 2005 Local/State control strategies implemented no later		Local/State				
	than this date					
September 30, 2005	EPA takes final action on SIP submitted December	EPA				
	31, 2004					
June 30, 2006	State submits progress report to EPA	State				
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State				

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI. Signatures

United States Environmental Protection Agency	Regional Administrate	Date
R. Levin Slam South Carolina Department of Health and Environmental Control	Dagenty Commissional Title	12/20/02 Date
Laurens County Representative	Cosaty Dlmmitator	Date 1 2002

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Saluda County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Saluda County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Action SIP Milestones						
DATE	DATE MILESTONE					
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA				
June 16, 2003	Discussion of control measures being considered to	Local/State				
	EPA					
March 31, 2004	Final local early action plan submitted to DHEC;	Local				
	copy to EPA					
December 31, 2004 Early Action State Implementation Plan submitted		State				
	to EPA for incorporation into SIP					
April 1, 2005 Local/State control strategies implemented no later		Local/State				
	than this date					
September 30, 2005	EPA takes final action on SIP submitted December	EPA				
	31, 2004					
June 30, 2006	State submits progress report to EPA	State				
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State				

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
 strategies.

D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

E. Maintenance for Growth

- 1. The early action SIP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the areas will remain in attainment of the 8-hour ozone standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
 - d. Any other appropriate techniques necessary to make such a determination.
- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any	area to	renew the	ir EAC	after	December	31,	2007,	or	initiate	a	new
	compact if it has	previousl	y forfeited	its parti	cipatio	on.						

VI. Signatures

United States Environmental Protection agency	Regional Administrator	12-30-01
Office Ales Environmental Protection Agency	THE	Date
	· ·	
R. Lemi Shan	Deput, Commissiones	12/20/02
South Carolina	Title	Date
Department of Health and Environmental Control		
A Emand Ham	County Council	December 11, 2002
H. Bernard Horne, County Representative	Chairman	Decourse

Waccamaw Area

Local Early Action Compacts

December 2002



SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Georgetown County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Georgetown County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Ac	Local Plan /Early Action SIP Milestones				
DATE	MILESTONE	RESPONSIBILITY			
December 31, 2002	EAC signed by all parties and submitted to EPA	Local/State/EPA			
June 16, 2003	Discussion of control measures being considered to	Local/State			
	EPA				
March 31, 2004	Final local early action plan submitted to DHEC;	Local			
	copy to EPA				
December 31, 2004	Early Action State Implementation Plan submitted	State			
	to EPA for incorporation into SIP				
April 1, 2005	Local/State control strategies implemented no later	Local/State			
	than this date				
September 30, 2005	EPA takes final action on SIP submitted December	EPA			
	31, 2004				
June 30, 2006	State submits progress report to EPA	State			
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State			

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
 - a. Emissions modeling data for a 1998 episode that is representative of a typical ozone season exceedance that meets the EPA episode selection guidance;
 - b. MOBILE6 for determining on-road mobile emissions;
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- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
- 2. Base case modeling will be completed by December 31, 2002. Future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004, with final revisions completed by March 31, 2004. All modeling will:
 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
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- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
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- 3. Local and state control strategies will be specific, quantified, permanent and enforceable. The strategies will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

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 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
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- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
 - a. All relevant actual new point sources;
 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
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F. Public Involvement

- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing	any area	to renew	their E	AC after	December	31,	2007, c	or initiate	a r	new
	compact if it h	as previo	usly forfe	ited its p	articipati	on.					

Signatures VI.

Units Lotates Environmental Protection Agency	Regional administra	Ter 12-30-02 Date
R. Zewi Slaw South Carolina Department of Health and Environmental Control	Deputy Commissiones Title	/2/27/02 Date
Jammen Edward Georgetown County Representative	Ctz John	123/02 Date

SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT Horry County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this (EAC) are: Horry County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
- D. Before formal adoption into the early action SIP, this agreement may be modified or terminated by mutual consent of all parties, or any party may withdraw from the agreement by notifying other parties in writing. If a party's withdrawal from the agreement prevents remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void, any deferred effective date of the non-attainment designation would be withdrawn and the area's non-attainment designation would become effective soon after. Upon termination or withdrawal from the EAC, the area will be subject to the full planning requirements under applicable CAA traditional processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking. The local government signatories will approve the local early action plans before submittal to DHEC for inclusion in the early action SIP. Once the local early action plan is incorporated into the early action SIP, any modifications will be treated as SIP revisions.
- E. Execution of this EAC by each Party shall be by signature of each Party's authorized representative. This agreement remains in effect until December 31, 2007.

II. Early Action Compact Requirements

A. Milestones and Reporting

DHEC and local areas will assess progress towards developing and implementing the early action SIP and make a report available to EPA and the public every six months beginning in June 2003. As per EPA guidance, the key milestones for participation in the EAC are identified in the following table.

Local Plan /Early Ac	ction SIP Milestones	
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September 30, 2005	EPA takes final action on SIP submitted December	EPA
	31, 2004	
June 30, 2006	State submits progress report to EPA	State
December 31, 2007	Attainment of the 8-hour ozone standard	Local/State

B. Emissions Inventories

- 1. DHEC will be responsible for developing emissions inventories.
- 2. An initial modeling emissions inventory will be completed by December 31, 2002. This inventory includes:
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 - b. MOBILE6 for determining on-road mobile emissions;
 - c. NONROAD model data; and,
 - d. Area source database utilizing population data allocated statewide.
- 3. A 2007 future year modeling emissions inventory will be developed by March 31, 2004. This inventory will sufficiently account for projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and on-road mobile sources.
- 4. Additional inventories will be contingent upon legislative appropriations or other funding. Selection of specific episode inventories will be partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events.
- 5. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by December 31, 2003.

C. Modeling

- DHEC will be responsible for conducting the meteorological and air quality modeling analysis. DHEC will conduct the modeling analysis based on the "Draft Guidance on the use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). The modeling will follow the guidance as facilitated by the EPA Regional Office.
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 - be SIP quality and perform within EPA's accepted margin of accuracy;
 - be carefully documented;
 - sufficiently account for projected future growth in ozone precursor emissions;
 - be accomplished by DHEC and reviewed by EPA; and,
 - be used to determine the effectiveness of NO_x and/or VOC reductions. The control
 case(s) will be used to determine the relative effectiveness of different emission
 reduction strategies and to aid in the selection of appropriate emission reduction
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D. Control Strategies

- 1. All adopted Federal and State control strategies that have been or will be implemented by the December 31, 2007, attainment date will be included in base, future and control case modeling.
- 2. Additional local and state control strategies under consideration will be identified by June 16, 2003. The local and state control strategies selected will be implemented as soon as practical, but no later than April 1, 2005.
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- 4. Voluntary strategies can play a supporting role in the local early action plan and the early action SIP. If emission reductions from voluntary strategies are quantified and credit is taken for them in the local early action plan or the early action SIP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary strategies fail. This is true for all quantified emission reductions.
- 5. Local and state control strategies will be designed and implemented with full stakeholder participation.

6. Local and state control strategies will be incorporated by DHEC into the early action SIP. In the event that the local area desires to add, delete or substitute strategies after early action SIP submittal, the local area will request a modification. Local early action plan modifications will be treated as SIP revisions and facilitated by DHEC.

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 - a. Modeling analysis showing ozone levels below the 8-hour ozone standard in 2012;
 - b. An annual review of growth (especially mobile and stationary source) to ensure control measures and growth assumptions are adequate;
 - c. Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates; or,
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- 2. The early action SIP must also detail a continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions). Modeling updates and planning processes must consider and evaluate the following:
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 - b. Impacts from potential new source growth; and,
 - c. Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
- 3. If the review of emissions growth in conjunction with the continuing planning process demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional measures will be added to the early action plan. Local planning processes should prepare for this possibility.
- 4. In the event that the continuing planning process identifies the need to add, delete, or substitute control strategies after the local early action plan has been incorporated into the early action SIP, the local area will initiate, and DHEC will facilitate a SIP revision to accommodate changes.

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- 1. Public involvement has been and will continue to be strongly encouraged during the planning and implementation process.
- 2. Public awareness programs will be used to provide opportunities for involvement in the planning process, implementation of control strategies, and any other issues important to the area.
- 3. Interested stakeholders (i.e., local, state, and federal government, citizens, public interest groups, and the business community) will continue to be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Early action SIP drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Opportunities for public comment on the proposed early action SIP will be provided and will follow the traditional SIP revision process as implemented by DHEC.
- 5. Semi-annual reports detailing, at a minimum, progress toward key milestones, will be made available to the public.
- 6. DHEC has established and will maintain a website for South Carolina's Early Action Plan for the 8-hour ozone standard, located at www.scdhec.net/baq/eap.html.

III. Local Government Responsibilities

The local governments agree to develop and implement a local early action plan that will promote the area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. The local governments will develop this plan in coordination with the DHEC, EPA, stakeholders and the public. The local early action plan will include a process to evaluate the effectiveness and maintain long-term compliance with the standard.

After all adopted Federal and State controls that have been or will be implemented by the attainment date of December 31, 2007, are accounted for in the modeling, the local area must adopt additional local controls, as necessary to demonstrate attainment of the 8-hour ozone standard by December 31, 2007. Local controls under consideration must be identified and described by June 16, 2003. These measures must be included in the semi-annual report made available to the public.

The draft local early action plan will be submitted to DHEC by August 31, 2003. The final local early action plan will be submitted to DHEC, with a copy forwarded to EPA, by March 31, 2004. The adopted local early action plan will be included in the early action SIP due December 31, 2004.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), the responsible party will notify all other signatories in writing as soon as possible.

IV. The South Carolina Department of Health and Environmental Control

DHEC agrees to develop and implement a state early action SIP that will demonstrate the participating area's attainment by December 31, 2007, of the 8-hour ozone standard and maintenance until at least 2012. DHEC will develop this plan in coordination with the local governments, EPA, stakeholders and the public. The state early action SIP will include a process to monitor and maintain long-term compliance with the standard.

It is the responsibility of each state under the CAA to ensure attainment with all National Ambient Air Quality Standards. At any such time that an area is deemed non-attainment, the state will be required to develop a plan to return the area(s) to attainment in accordance with the CAA. If applicable, South Carolina is committed to working with adjacent states to assure mutual attainment of national standards.

In the event a development or issue arises that may impact performance or progress toward key milestones (including if a key milestone will be or has been missed and/or if a termination or modification has been requested), DHEC will notify all other signatories in writing as soon as possible.

DHEC will provide support to areas throughout the planning and implementation process by:

- 1 Developing emission inventories, modeling, trend analysis, and quantification and comparison of control measures.
- 2. Providing necessary information on all federal and state adopted emission reduction measures, which affect the area.
- 3. Providing technical and strategic assistance, as appropriate, in the selection and implementation of control strategies.
- 4. Providing technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date.
- 5. Maintaining monitors and reporting and analysis of monitoring data.
- 6. Promoting public awareness efforts.
- 7. Coordinating communication between local areas and the EPA to facilitate continuing the EPA review of local work.
- 8. Ensuring expeditious review of local early action plan(s), and if deemed adequate, proposing modification of the early action SIP to adopt the early action plan.

- 9. Adopting control measures into the early action SIP as expeditiously as possible. The final complete early action SIP revision must be completed, adopted, and submitted by the state to the EPA by December 31, 2004.
- 10. Tracking progress. If any milestone is missed and EPA withdraws the deferred effective date, thereby triggering a non-attainment designation and applicable statutory requirements, the state will strive to submit a traditional non-attainment SIP within one year. However, due to the South Carolina legislative review process, it may take at least eighteen months.
- 11. Working concurrently with areas not electing to participate in the early action SIP process in preparing the traditional SIP submittal as required by the CAA.

V. The Environmental Protection Agency

The EPA will participate by:

- 1. Recognizing the local area's and state's commitment to voluntarily adopt an early, substantive, enforceable, and scientifically-based attainment plan with early implementation of control measures by becoming a party to the EAC developed in conformance with South Carolina's Protocol for Early Action Compacts.
- 2. Providing technical assistance to the state(s) and local area(s) in the development of the early action plan.
- 3. Reviewing and approving the completed early action SIP by no later than September 30, 2005.
- 4. Deferring the effective date of non-attainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and key milestones of the EAC are being met, including submission of the early action SIP revision by December 31, 2004.
- 5. Designating the area expeditiously as attainment and imposing no additional requirements, provided that the monitors in the area reflect attainment by December 31, 2007.
- 6. Taking action to withdraw the deferred effective date if the area violates the standard as of December 31, 2007, and the area has had the effective date of its non-attainment designation deferred. The area's non-attainment designation will become effective soon after
- 7. Ensuring appropriate credit in the traditional SIP process for all emissions reductions from measures implemented in the early action SIP if the area does not meet all the terms of the EAC; including meeting agreed-upon key milestones and is designated (or redesignated if necessary) according to the EPA's 8-hour ozone implementation guidelines. The EPA will offer such an area no delays, exemptions, or other favorable treatment because of its participation in the EAC.

8.	Not allowing any area to renew their EAC after December 31, 2007, or initiate a new
	compact if it has previously forfeited its participation.

VI.	Signatures

United States Environmental Protection Agency	Regional ad	minist	Date 12-3	0-02
Office States Environmental Freedom Agency			Date	
R. Lem Sham	Deputy Com	SSION ES	12/27	102
South Carolina	Deputy Commi		Date	
Department of Health and Environmental Con	itrol			
			v	
Horry County	Administrator			
- Jany Krth	Namin's TOUR	12-	23-02	
(insert county name) County Representative I	Title Hozzy	Date		
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SOUTH CAROLINA'S 8-HOUR OZONE EARLY ACTION COMPACT

Williamsburg County

The United States Environmental Protection Agency (EPA) has provided an option for areas currently meeting the 1-hour ozone standard, like those in South Carolina, to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated. This option offers a more expeditious time line for achieving emissions reductions than expected under the EPA's 8-hour ozone implementation rulemaking, while providing "fail-safe" provisions for the area to revert to the traditional State Implementation Plan (SIP) process if specific milestones are not met. Through the development of this Early Action Compact (EAC), local, state, and EPA officials agree to work together to develop and implement local and state early action plans. The plans will become a part of the state early action SIP to reduce ground-level ozone concentrations to comply with the 8-hour ozone standard by December 31, 2007, and maintain the standard beyond that date. Failure to meet the obligations outlined in this EAC will result in immediate reversion to the traditional non-attainment designation process as required in the Clean Air Act (CAA).

In an effort to provide this information to areas within South Carolina, the South Carolina Department of Health and Environmental Control (DHEC) held six public meetings throughout the state. The locations of the meetings were targeted to areas that could potentially be designated as non-attainment for the 8-hour ozone standard. The meetings were held in Columbia, Greenville, Florence, Rock Hill, Aiken and Charleston. EPA officials participated in five of the six meetings. The general public, local government representatives, industry representatives, and environmental interest groups attended the meetings. Prior to the meetings, DHEC issued a press release regarding the development of an early action SIP. Correspondence including a fact sheet was sent to all county administrators, Councils of Governments, Metropolitan Planning Organizations, public interest groups, industry representatives, other state agencies and others determined to be stakeholders in the process.

The Parties to this EAC are: Williamsburg County, South Carolina Department of Health and Environmental Control (DHEC) and EPA.

I. General Provisions

- A. The parties commit to develop, implement and maintain the early action SIP (which includes the local early action plans) providing EPA defers the effective date of the non-attainment designation and related requirements as long as all conditions of the EAC and key milestones are met.
- B. If the potential area of non-attainment does not meet all the terms of the EAC, then it will forfeit its participation and will be subject to the full planning requirements under applicable CAA

traditional SIP processes including requirements defined as part of the EPA's 8-hour ozone implementation rulemaking.

- C. If the area has had the effective date of a non-attainment designation deferred and the area does not reach attainment of the standard by December 31, 2007, then the non-attainment designation will be effective. If the EPA's implementation schedule also requires a traditional SIP from areas on or before December 31, 2007, then a traditional SIP revision demonstrating attainment by the new attainment date will be due for the non-attainment area no later than December 31, 2008.
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8. Not allowing any area to renew their EAC after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

VI.	Signatures

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United States Environmental Protection Agency	Hitle	Date
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R. Lemi Slan South Carolina	Deputy Consission	12/20/02 Date
Department of Health and Environmental Control		,
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Title

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